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Welding Journal

This part includes general technical articles, papers presented before Section and National meetings, articles for the Practical Welder and Designer, news, biographical items, current welding literature and advertising.

Welding Research Supplement

This section includes the reports of the Welding Research Council, critical digests of the literature, reports of the Project Committees and research reports of industry, also papers presented at National Meetings.

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Lamellar Tearing in Multi-Pass Fillet Joints—D. N. ELLIOTT 409-s to 416-s (Sep.)
Lamellar Tearing in Welded Structural Steels—J. C. M. FARRAR, R. E. DOLBY and R. G. BAKER, 274-s to 282-s (Jul.)
Laser, Carbon Dioxide, Continuous Butt Welding Using A—W. G. ALWANG, L. A. CAVANAUGH and E. SAMMARTINO, 110-s to 115-s (Mar.)
Lead-Tin Solders, The Reaction of with Copper Alloys—M. A. H. HOWES and Z. P. SAPERSTEIN, 80-s to 85-s (Feb.)
Low-Alloy Steel Weldments, Stress-Relief Cracking in—C. F. MEITZNER and A. W. PENSE, 431-s to 440-s (Oct.)

Maraging Steel Weld Metal, 18% Ni, The Heat Treatment of—Z. PALEY, 245-s to 252-s (Jun.)
Maraging Steels-Design of Base Metals for Weldability—N. KENYON, 105-s to 109-s (Mar.)
Mass Transfer of Metal Vapor and Anode Temperatures in Arc Melting—D. G. HOWDEN, 125-s to 132-s (Mar.)
Mechanical Properties of Soldered Joints in Copper Alloys—Z. P. SAPERSTEIN and M. A. H. HOWES, 317-s to 327-s (Aug.)
Metallographic Study of Weld Solidification in Copper—R. S. BRAY, L. J. LOZANO and R. E. WILLETT, 181-s to 185-s (May).
Metallurgical Characteristics, Influence of on Resistance Welding of Galvanized Steel—L. M. FRIEDMAN and R. B. MCCAULEY, 454-s to 462-s (Oct.)
Moisture, Effect of on Cold Cracking of a Carbon-Manganese Steel—C. G. INTERRANTE, E. N. C., DALDER and R. B. G. YEO, 384-s to 388-s (Sep.)
Multi-Pass Fillett Joints, Lamellar Tearing in—D. N. ELLIOTT, 409-s to 416-s (Sep.)
Multiple-Pass Welds, Heat Treatment Effects of—R. D. STOUT, P. F. MCLAUGHLIN and S. S. STRUNCK, 154-s to 160-s (Apr.)

Nickel-Base Alloys, Studies of Postweld Heat-Treatment Cracking in—D. S. DUVALL and W. A. OWCZARSKI, 10-s to 22-s (Jan.)
Nickel-Base Brazing Filler Metals, The Effects of Aggression by—S. LAMB and F. M. MILLER, 283-s to 289-s (Jul.)
Nickel-Base Superalloy, Comparison of Inertia Bonded and Electron-Beam Welded Joints in a—J. DOYLE, P. VOZZELLA, F. WALLACE and H. DUNTHRONE, 514-s to 520-s (Nov.)
9Ni-4Co Filler Metal Composition, 180 Ksi Yield Strength, Stress Relievable, Development of a—J. SAVAS, P. BECKER and S. J. MATAS, 479-s to 492-s (Nov.)
Normalized versus Unnormalized High-Frequency Resistance-Welded 5LX-52 Line Pipe—P. R. HABICHT, H. W. MISHLER, M. D. RANDALL and W. E. STUDEBAKER, 1-s to 8-s (Jan.)
Notch Ductility, The Effect of Strength and Thickness on—J. H. GROSS, 441-s to 453-s (Oct.)
Notched Steel Plates, Photoelastic Study of Flow and Fracture of—C. P. CANNON and W. H. MUNSE, 558-s to 570-s (Dec.)

Photoelastic Study of Flow and Fracture of Notched Stee Plates—C. P. CANNON and W. H. MUNSE, 558-s to 570-s (Dec.)
Pipe (Line), 5LX-52, Normalized versus Unnormalized High, Frequency Resistance-Welded—P. R. HABICHT, H. W. MISHLER, M. D. RANDALL and W. E. STUDEBAKER, 1-s to 8-s (Jan.)
Planishing and Thermal Treatments, Effects of on Welded Ti-6Al-4V Alloy—L. ALBERTIN, 34-s to 44-s (Jan.)
Plates, Orthogonally Stiffened, Experimental Studies of—H. A. KAGAN, 571-s to 576-s (Dec.)
Postweld Heat-Treatment Cracking in Nickel-Base Alloys, Studies of—D. S. DUVALL and W. A. OWCZARSKI, 10-s to 22-s (Jan.)
Preheat Effects on Gas Metal-Arc Welded Ductile Cast Iron—D. J. KOTECKI, N. R. BRATON and C. R. LOPER, JR., 161-s to 166-s (Apr.)
Preirradiation and Postirradiation Mechanical Properties on Hastelloy N Welds—H. E. MCCOY and D. A. CANONICO, 203-s to 211-s (May).
Pressure Effects, Ambient, on Gas Metal-Arc Welding of Mild Steel—M. PERLMAN, A. W. PENSE and R. D. STOUT, 231-s to 238-s (Jun.)
Pressure Vessel Applications, Electron Beam Welding 2219 Aluminum Alloy for—J. P. TRZIL and D. W. HOOD, 395-s to 408-s (Sep.)
Prestrained Steel, Restoration of Ductility of by Heat Treatment of 700 to 1150° F—C. MYLONAS and R. J. BEAULIEU, 306-s to 316-s (Jul.)
Properties and Transformation Characteristics of Welds in Ti-6Al-2Sn-4Zr-2Mo Tritanium Alloy, The—D. R. MITCHELL and T. J. TUCKER, 23-s to 33-s (Jan.)
Protective Coatings, Effect of on Weldability of Selected Steels—H. E. PATTEE and R. E. MONROE, 221-s to 230-s (Jun.)
Pulsed Current Arc Welding, Variable Frequency Gas Shielded—B. D. LAWRENCE and C. E. JACKSON, 97-s to 104-s (Mar.)
PVRC Support of the ASME Boiler Code and Pressure Vessel Committee—W. D. DOTY, 269-s to 273-s (Jul.)

Rare Earths, Influence of in Stainless Steel Bare Wire Electrodes—C. E. CASSEL, 167-s to 170-s (Apr).
Resistance Welding in Hard Vacuum, The Feasibility of—D. L. CHEEVER, D. G. HOWDEN and R. E. MONROE, 133-s to 140-s (Apr.)
Resistance Welding of Galvanized Steel, Influence of Metallurgical Characteristics on—L. M. FRIEDMAN and R. B. MCCAULEY, 454-s to 462-s (Oct.)

Shielded Metal-Arc Welds in Galvanized Steel, Cracking Behaviour of—E. N. GREGORY, 369-s to 376-s (Aug.)
Sigma Phase, Embrittlement of Type 347 Stainless Steel Weldments by—E. L. CREAMER, I. ROZALSKY and R. W. LEONARD, 239-s to 244-s (Jun.)
Silver Base Brazing Alloys, Attack of Ti-6Al-4V by—M. S. TUCKER, 521-s to 527-s (Dec).
Solder, Molten Tin-Lead, Dissolution of Au, Ag, Pd, Pt, Cu and Ni in a—W. G. BADER, 551-s to 557-s (Dec.)
Soldered Joints in Copper Alloys, Mechanical Properties of—Z. P. SAPERSTEIN and M. A. H. HOWES, 317-s to 327-s (Aug.)
Stainless Steel Bare Wire Electrodes, Influence of Rare Earths in—C. E. CASSEL, 167-s to 170-s (Apr).

Stainless Steel Weldments, Type 304L, Transmission Electron Microscopy of—G. L. Downs, 469-s to 472-s (Oct.)
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Stress-Relief Cracking in Low-Alloy Steel Weldments—C. F. Meitzner and A. W. Pense, 431-s to 440-s (Oct.)
Stud Welding, Capacitor Discharge, on Titanium Alloys, Compatibility Studies of—C. C. Pease, 253-s to 257s-(Jun.)

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Thermal Fatigue Resistance of Copper to Steel Weld Joints—M. A. H. Howes, 543-s to 550-s (Dec.)
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Ti-6Al-4V Alloy, Effects of Planishing and Thermal Treatments on Welded—L. Albertin, 34-s to 44-s (Jan.)
Titanium Alloy Ti-6A1-2Sn-4Zr-2Mo, The Properties and Transformation Characteristics of Welds in—D. R. Mitchell and T. J. Tucker, 23-s to 33-s (Jan.)
Titanium Alloys, Compatibility Studies of Capacitor Discharge Stud Welding on—C. C. Pease, 253-s to 257-s (Jun.)
Titanium Diffusion Welds, The Tensile Properties and Fracture Characteristics of—W. A. Owczarski, W. H. King and J. W. O'Connor, 377-s to 383-s (Sep.)
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Toughness Studies of Welds, A Model for—L. L.-J. Chin, 290-s to 294-s (Jul.)
Transmission Electron Microscopy of Type 304L Stainless Steel Weldments—G. L. Downs, 469-s to 472-s (Oct.)
Tungsten Base Alloys, The Weldability of—G. G. Lessman and R. G. Gold, 528-s to 542-s (Dec.)

Variable Frequency Gas Shielded Pulsed Current Arc Welding—B. D. Lawrence and C. E. Jackson, 97-s to 104-s (Mar.)

Weld Defects, The Influence of on Performance—D. V. Lindh and G. M. Peshak, 45-s to 56-s (Feb.)
Weld Fusion Zone, The Effect of Heat-Affected Zone Structure on the Structure of the—C. R. Loper, Jr., L. A. Shideler and J. H. Devletian, 171-s to 178-s (Apr.)
Weld Joints, Some Significant Parameters in the Fatigue Properties of—H. S. Reemsnyder, 213-s to 220-s (May).
Weld Metal Composition Control—J. Heuschkel, 328-s to 347-s (Aug.)
Weld Metal, 18% Ni Maraging Steel, The Heat Treatment of—Z. Paley, 245-s to 252-s (Jun.)
Weld Metals, High Strength, Hydrogen Cracking in—F. Watkinson, 417-s to 424-s (Sep.)
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Weldability of Selected Steels, Effect of Protective Coatings on—H. E. Pattee and R. E. Monroe, 221-s to 230-s (Jun.)
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WILSON, K. R.—Attack of Ti-6Al-4V by Silver Base Brazing Alloys, 521-s to 527-s (Dec).
WU, K. C.—Dual-Filler Metal Welding of Ti-6Al-2Sn and 6061 Aluminum Plates, 359-s to 368-s (Aug.)

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